

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMIERE

Report Number: G2-1802-569-16

Luminaire Tested: **203-FL-8LED4025-12-BK-DIFF**

Test Date: 04/04/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-16
Test Lab: INNOVATION CENTER(G2)
Test Date: 04/04/18
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 203-FL-8LED4025-12-BK-DIFF
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 25 DEGREE NARROW OPTIC, FLUSH HOOD BLACK, DIFFUSED LENS
Light Source: (1) SORAA 4000K 90 CRI 25° NFL LED SM16-07-25D-940-03
Ballast/Driver: CHROMA POWER SUPPLY IN0004

Summary

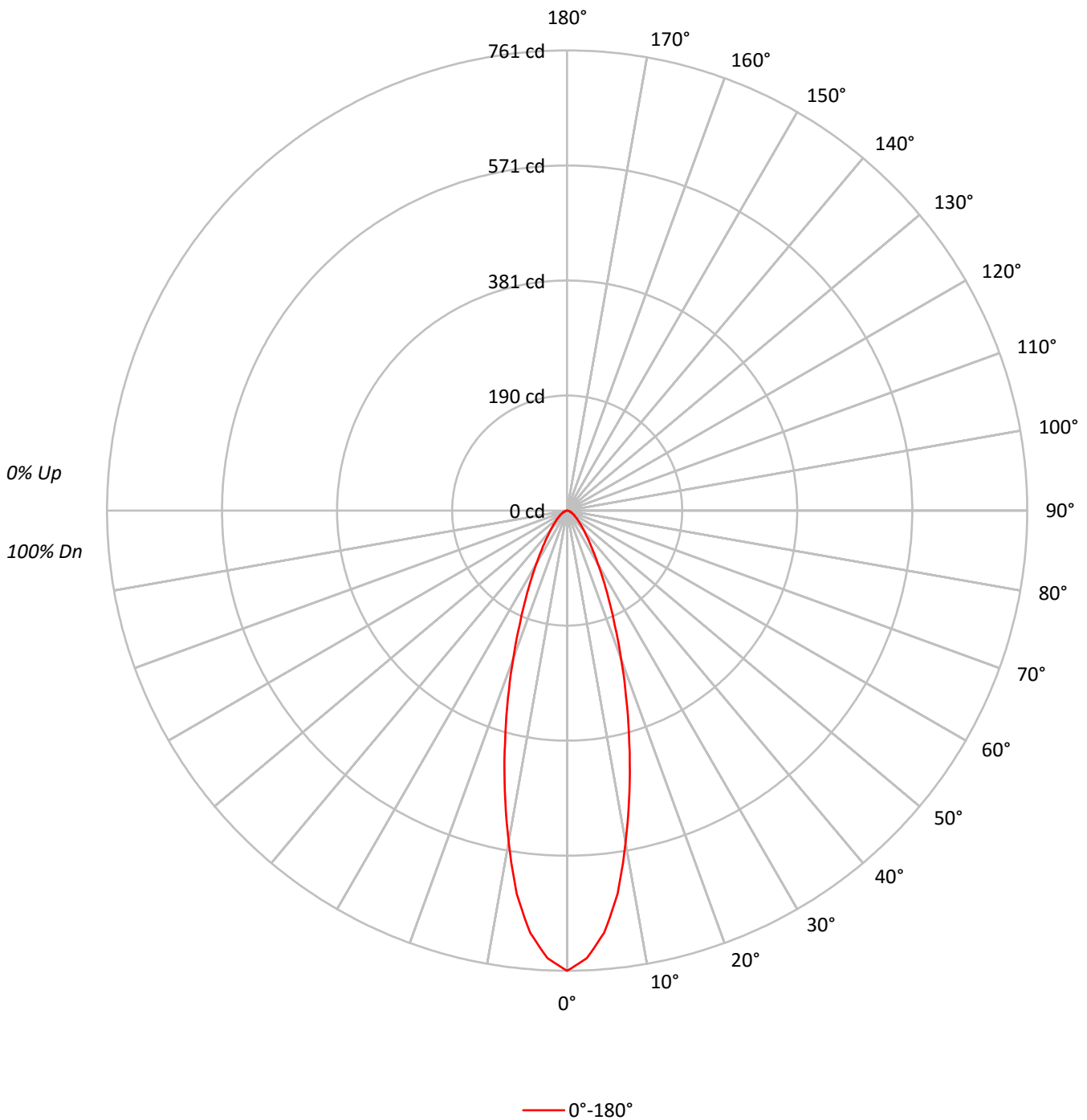
Lumens per Lamp: N/A
Luminaire Lumens: 338.6 lumens
Efficiency: N/A
Efficacy: 43.4 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.51 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.8
Input Voltage (V): 12.0
Input Current (A_{in}): 0.686
Voltage Rise (V): NR
Power Factor: 0.9485
Total Harmonic Distortion (THDi): 27.3%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 9 HR
Ambient Temperature (°C): 24.8
Test Distance: 25 FT



TEST NUMBER: G2-1802-569-16
CATALOG NUMBER: 203-FL-8LED4025-12-BK-DIFF

Luminous Intensity Polar Plot





TEST NUMBER: G2-1802-569-16

CATALOG NUMBER: 203-FL-8LED4025-12-BK-DIFF

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	101	95	90	86	92	88	85	90	86	84	87	85	82	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76
5	93	85	79	75	91	84	79	75	82	78	74	81	76	73	79	75	73	71
6	89	80	74	70	87	79	74	70	78	73	70	77	72	69	75	72	69	67
7	85	76	70	66	84	75	70	66	74	69	66	73	69	65	72	68	65	64
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	60
9	78	69	63	60	77	68	63	59	68	63	59	67	62	59	66	62	59	58
10	75	66	60	57	74	65	60	57	65	60	57	64	59	56	63	59	56	55

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	375462
5°	347180
10°	279052
15°	202781
20°	136511
25°	88735
30°	58110
35°	39150
40°	27695
45°	20932
50°	16119
55°	12903
60°	10854
65°	9339
70°	7213
75°	5719
80°	2841
85°	0



TEST NUMBER: G2-1802-569-16
 CATALOG NUMBER: 203-FL-8LED4025-12-BK-DIFF

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.4	18.4
10°-20°	109.5	32.3
20°-30°	76.5	22.6
30°-40°	41.9	12.4
40°-50°	23.6	7.0
50°-60°	13.8	4.1
60°-70°	7.7	2.3
70°-80°	3.2	0.9
80°-90°	0.1	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	248.3	73.3
0°-40°	290.3	85.7
0°-60°	327.7	96.8
0°-90°	338.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	338.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	761	
5°	701	62
15°	397	110
25°	163	76
35°	65	42
45°	30	24
55°	15	14
65°	8	8
75°	3	3
85°	0	0
90°	0	



TEST NUMBER: G2-1802-569-16
CATALOG NUMBER: 203-FL-8LED4025-12-BK-DIFF

CANDELA DISTRIBUTION (FULL):

	0°
0°	761
2.5°	741
5°	701
7.5°	639
10°	557
12.5°	476
15°	397
17.5°	325
20°	260
22.5°	206
25°	163
27.5°	129
30°	102
32.5°	81
35°	65
37.5°	53
40°	43
42.5°	36
45°	30
47.5°	25
50°	21
52.5°	18
55°	15
57.5°	13
60°	11
62.5°	9
65°	8
67.5°	6
70°	5
72.5°	4
75°	3
77.5°	2
80°	1
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)